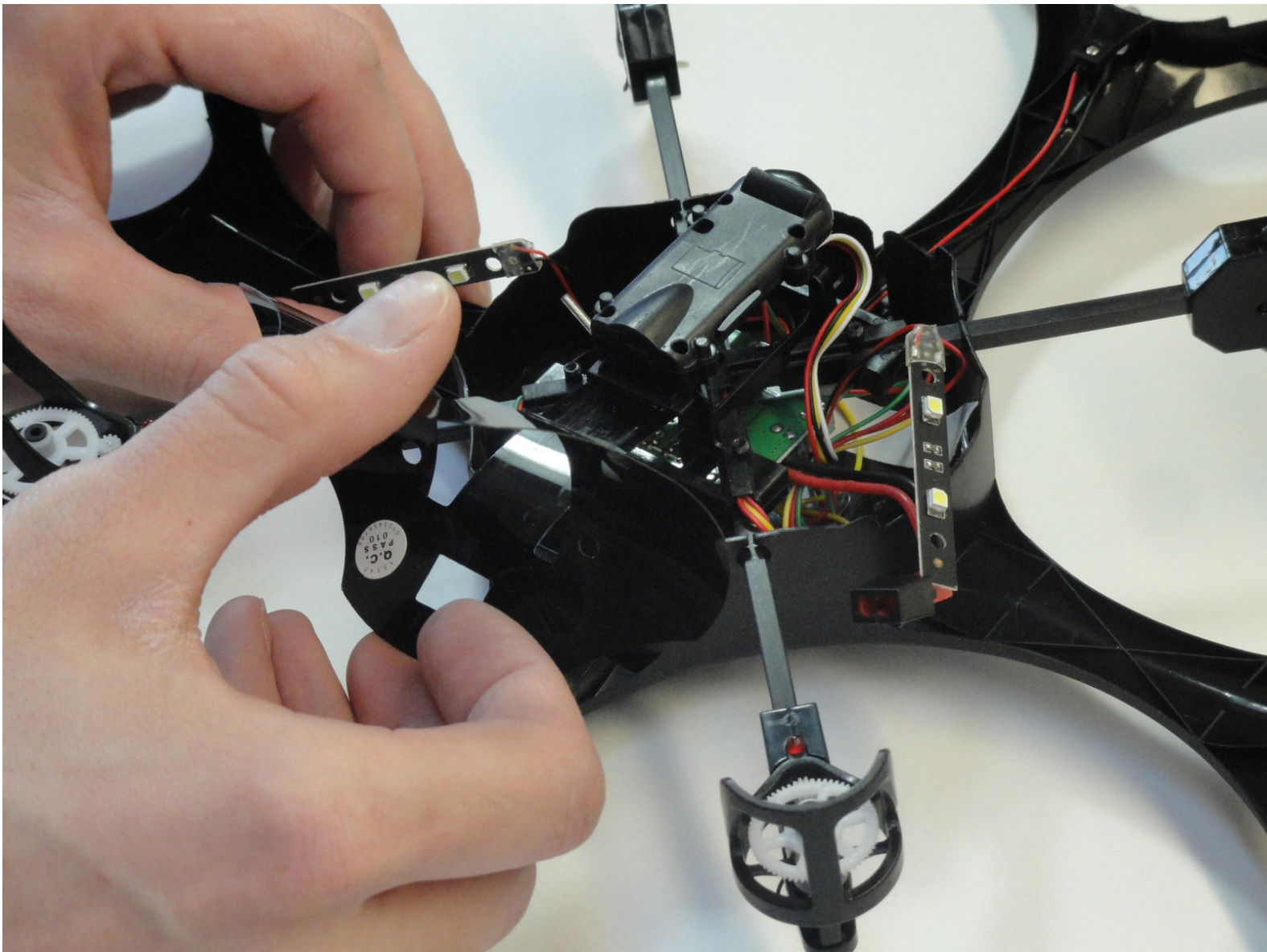




UDI U818A Camera Assembly Replacement

This guide will show you how to replace the video box (or camera), part number U818A-12, that is attached to the main frame of the drone.

Written By: Anthony Mitchell



INTRODUCTION

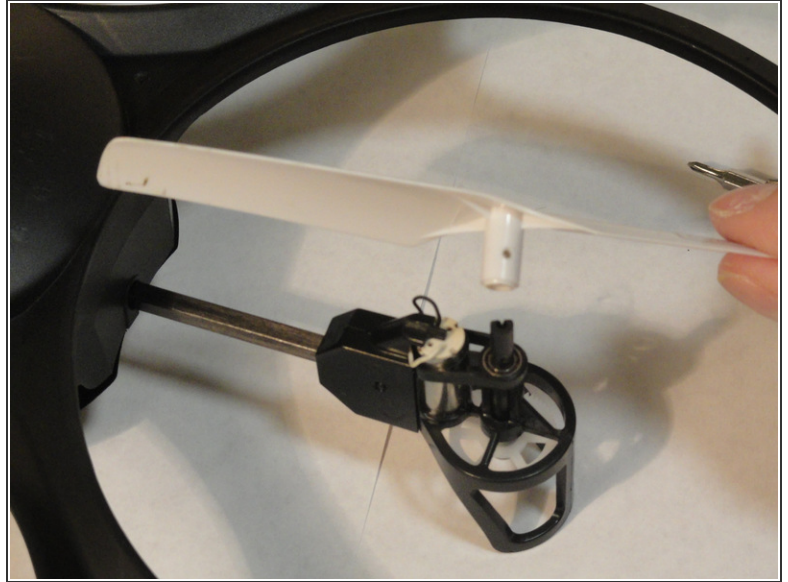
Replacing the camera requires complete dis-assembly of the drone, because the main frame is attached to the receiving board on the very inside of the drone.



TOOLS:

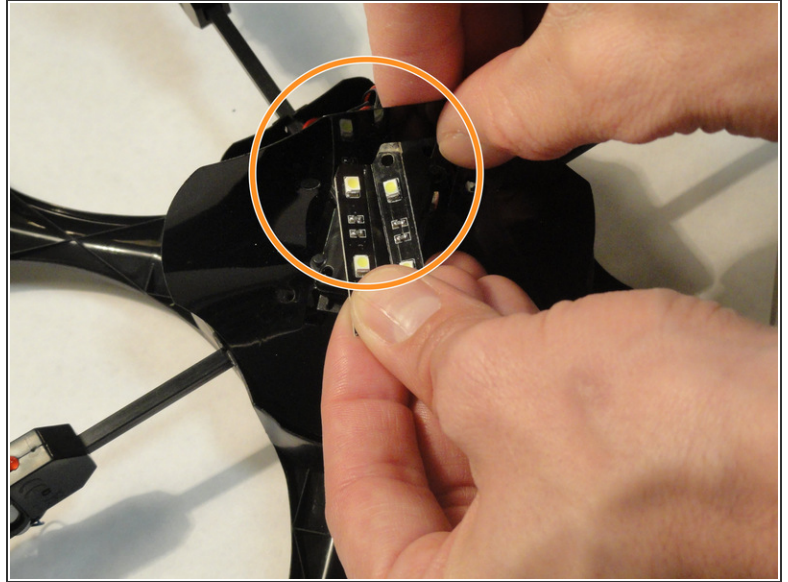
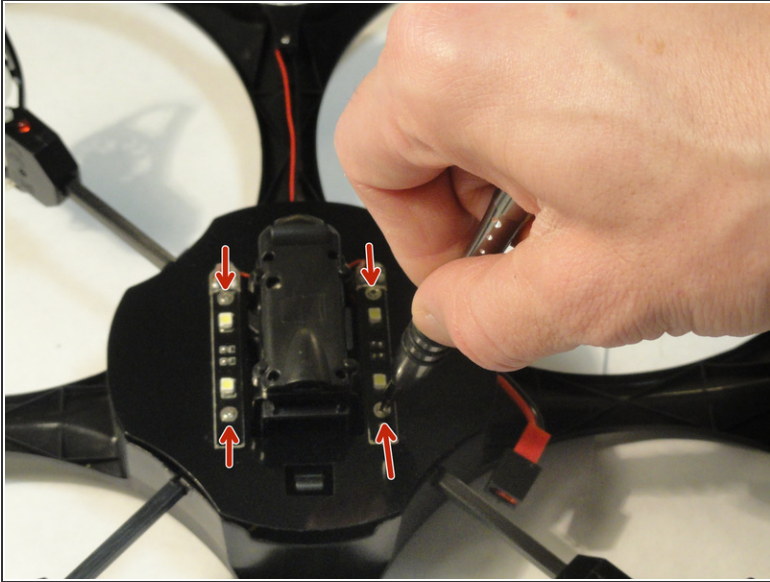
- [iFixit Opening Tools](#) (1)
 - [Phillips #000 Screwdriver](#) (1)
-

Step 1 — Propellers



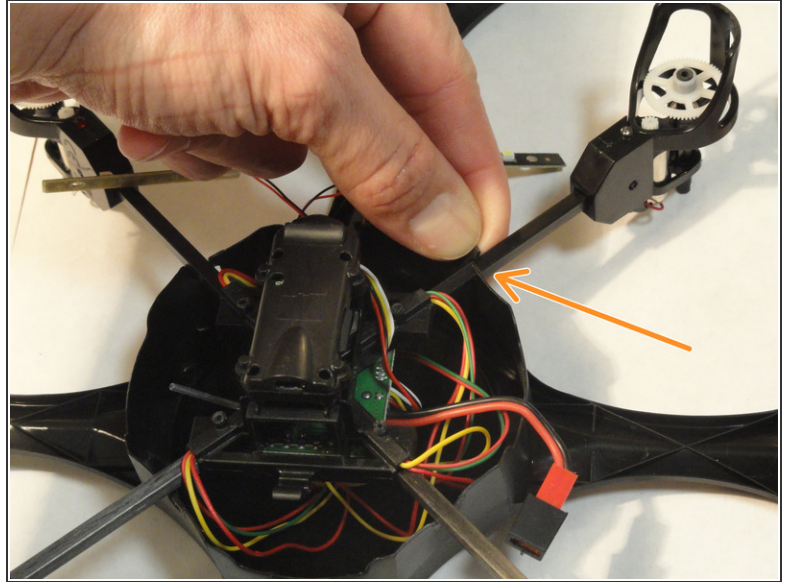
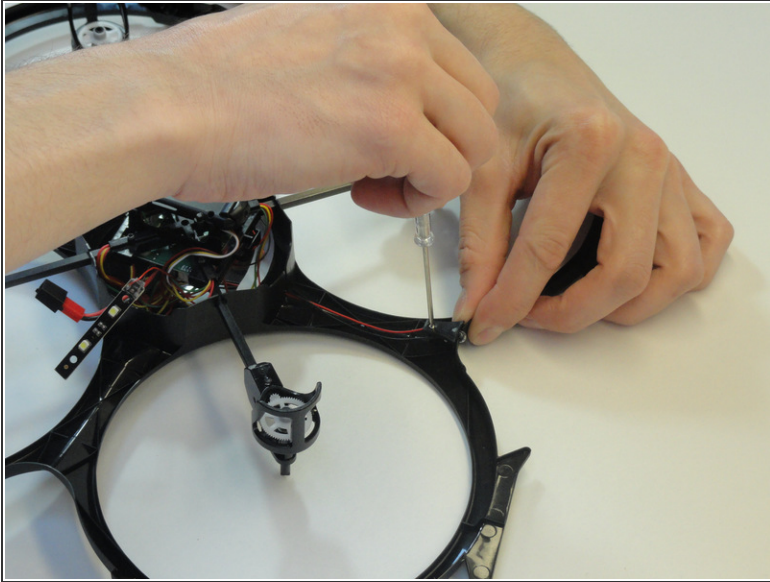
- Using #PH000 screwdriver remove the 5mm screw retaining the propeller to the rotating post; there is one for each propeller.
- You can now safely pull the propeller away from its apparatus.

Step 2 — Drone Cover



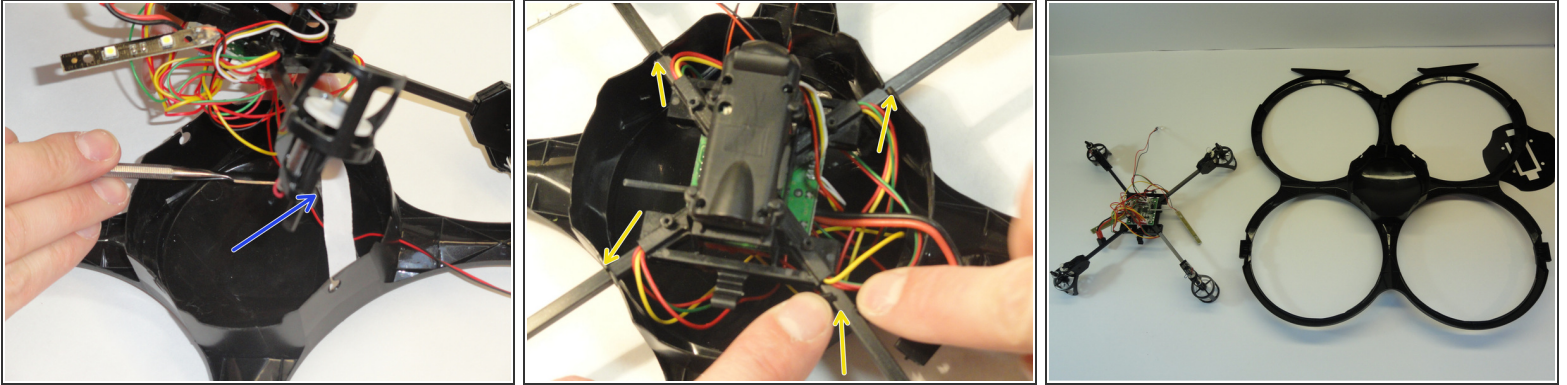
- After removing the propellers, unscrew all 4 (3x3mm) screws connecting the electronics to the frame.
 - Once you removed all the screws holding the plastic dust cover to the frame, pull the 2 LED bars through the dust cover and remove the thin plastic dust cover from the drone.
- ⚠ You can now access the piece connecting the electronics to the drone cover, but do not remove electronics until after disconnecting the drone head lamp first.

Step 3



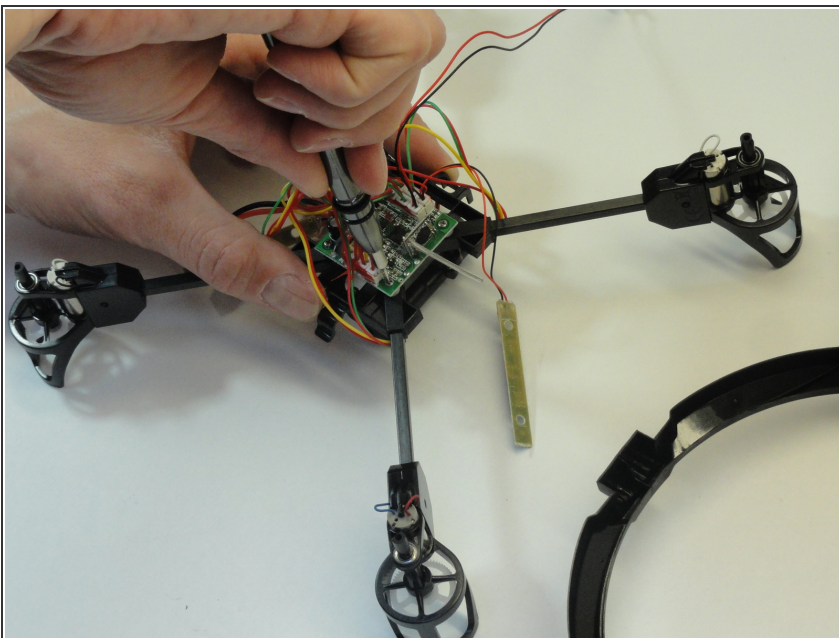
- Step two is disconnecting and removing the head lamp.
 - Use a screw driver for 5mm screw to remove head lamp of drone.
 - You can now disconnect the electronics from the frame of the drone by pulling each arm out of the hole in the frame holding it in place.
- ⚠ Do not try to separate the frame from the electronics yet! First, check to see if there is tape holding the head lamp wires in place underneath the electronics.

Step 4



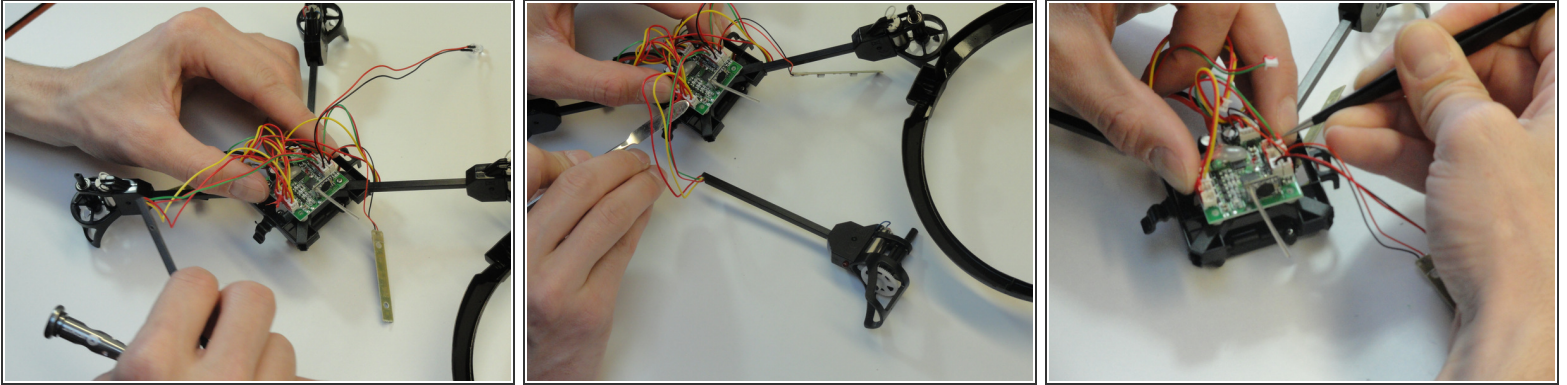
- Lastly, if there is white tape over the black and red wires for the head lamp, remove the tape with a metal spudger.
- ⓘ Remove this tape but try to keep it in reusable condition to re-secure the headlight later so there are no loose wires.
- Separate the plastic tabs securing the motor arms to the drone cover and delicately pull out the arm. Do this for all 4 arms to remove the frame from the cover.

Step 5 — Drone Arms



- Using a #PH000 screwdriver to remove the 4 (5mm) corner screws that secure both the receiving board and the motor arm.
- ⓘ Notice how the wires tuck neatly in the bottom channel of the motor arm.

Step 6



- Carefully slide the arm out from the socket.
- A metal spudger, plastic removal tool or tweezers work best to remove the connectors from the receiving board.
- i** The cables connecting to the receiving board will be secured with a light adhesive that can be easily scraped away to remove the desired connector.

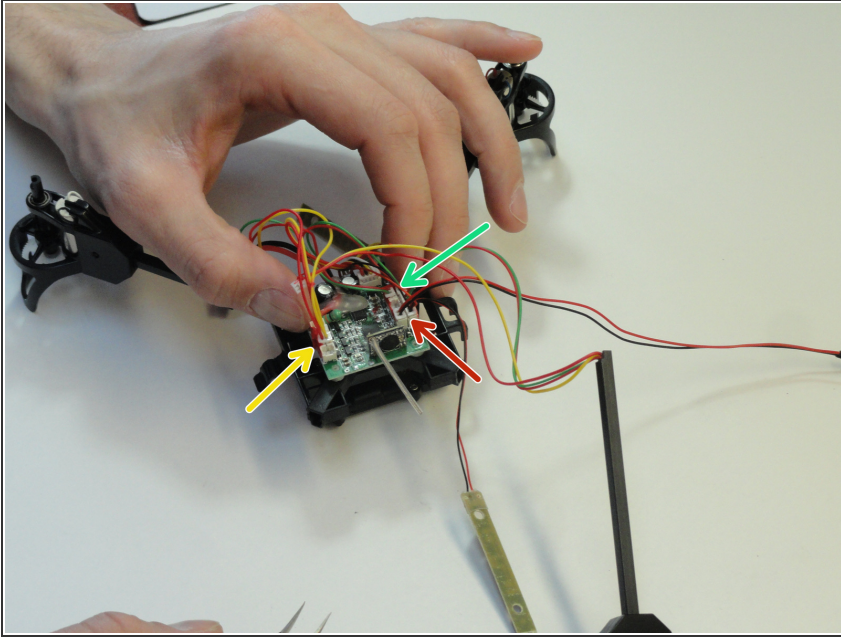
Step 7



i Motor direction and propeller direction is crucial to proper flight, refer to this format.

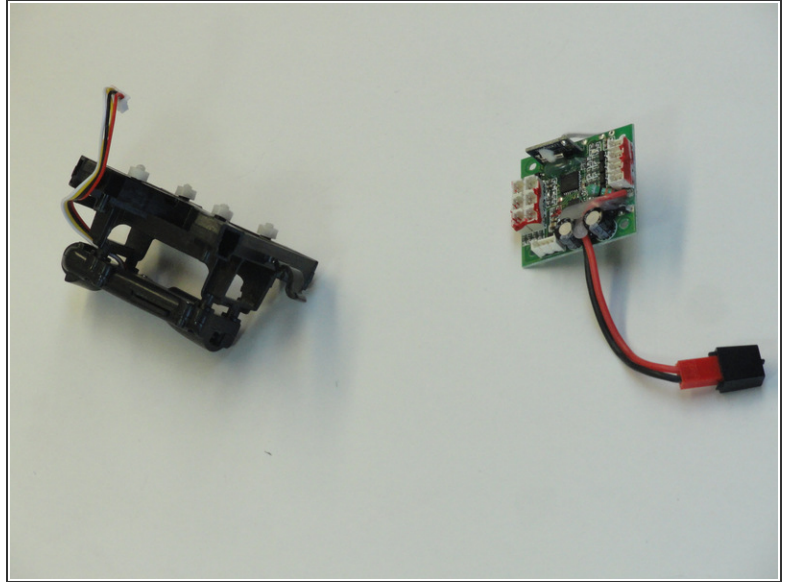
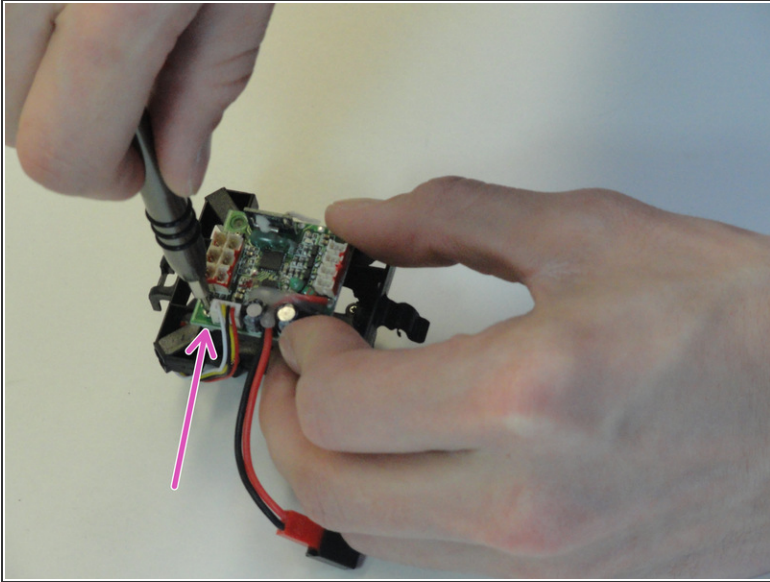
- The Front Left motor identified by Red/Blue wires is a **Standard**(*Clockwise*) spinning motor, it pairs with a *White A2* propeller.
- The Front Right motor identified by the Black/White wires is a **Reverse**(*CounterClockwise*) spinning motor, it pairs with a *White B2* propeller.
- The Back Left motor identified by the Black/White wires is a **Reverse**(*CounterClockwise*) spinning motor, it pairs with a *Black B1* propeller.
- The Back Right motor identified by the Red/Blue wires is a **Standard**(*Clockwise*) spinning motor, it pairs with a *Black A1* propeller.

Step 8



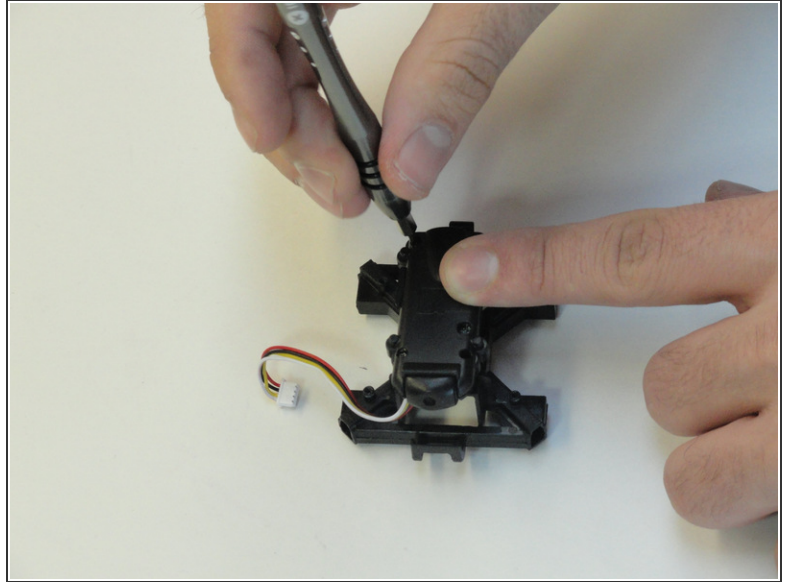
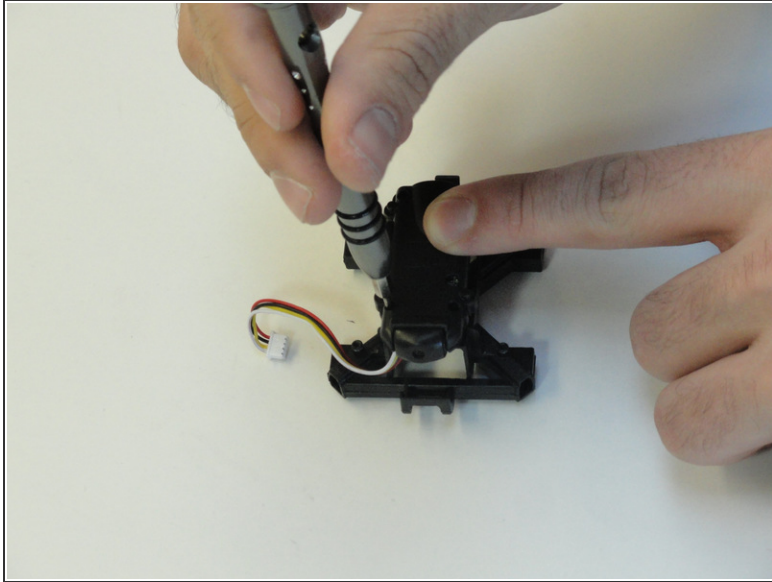
- i** The wiring can appear confusing, don't be alarmed. It's quite easy, and absolutely necessary for proper flight.
- The 4 bottom connectors receive the motor power cables that are Red/Yellow wire pairs from each motor. Counting the sockets 1-4 from left to right.
 - Front Right motor connects to socket 1.
 - Front Left motor connects to socket 2.
 - Rear Left motor connects to socket 3.
 - Rear Right motor connects to socket 4.
 - The Red/Green wire pairs from each motor power the LED to that branch, they connect to 4 of 6 sockets on the top of the receiving board. There is no sequence required.
 - The headlight LED, and underside LED bars connect to the remaining 2 sockets on the top of the receiving board. Again, no sequence is required. All LED Red/Black and Red/Green wire pairs connect to top of the receiving board.

Step 9 — Camera Assembly



- When you are done, find the cable which connects camera to the receiving board of the drone.
- After finding it, unplug cable from chip using a metal spudger.

Step 10



- Last step is to take out all 4 (5mm) screws from the main frame where camera is fixed using a PH #000 screwdriver.
- After all four screws are removed from each corner of the camera apparatus, separate it from the main frame.

To reassemble your device, follow these instructions in reverse order.

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